

## MICROBIAL IDENTIFICATION DATABASES

### Abstract

Methods of compensating for drift in fingerprint spectra of microorganisms  
5 caused by changes in their environment are disclosed. These methods of compensating  
for drift permit identification of microorganisms from their fingerprint spectra  
regardless of the environment from which the microorganisms are obtained.  
Furthermore, the disclosed methods may be used to construct coherent databases of  
fingerprint spectra that may be expanded even though the standard database conditions  
10 are no longer experimentally achievable. In particular embodiments, methods of  
compensating for drift in pyrolysis mass spectra, constructing coherent pyrolysis mass  
spectral databases, and identifying bacteria from their pyrolysis mass spectra are  
disclosed.

100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0